# 2008-09 Ford Power Stroke 6.4L

*Edge Racing Evolution Programmer*

*Installation Instruction & Manual*

**P/N: 15500**

*(Will not work on vehicles larger than the F-550)*

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*Manual Version 2*

# EDGE RACING PRODUCTS DISCLAIMER

## DISCLAIMER

This Edge Racing-brand product ("this Product") is designed, and intended, only for legal, organized, closed-course, off-street racing/pulling/competition uses involving the motor vehicle in which it is installed (the "Vehicle"), and not for use on public highways, streets, and other roads. The person or entity buying this Product and/or using this Product [even if different from such buyer] (the "User") agrees to use the Vehicle only for otherwise legal, organized, closed-course, off-street racing/pulling/competition purposes in controlled environments under the auspices of a recognized sanctioning body or government permit.

Use of this Product in the Vehicle on public highways, streets, and other roads, and in some cases off-road, may violate applicable federal, state, or local clean air, emission, noise, and other environmental laws, or applicable motor vehicle, vehicle registration, traffic, and other laws. The User must review and comply, and is solely responsible for reviewing and complying, with all applicable clean air, emission, noise, and other environmental laws, as well as all applicable motor vehicle, traffic, safety, and other laws, in connection with User's installation and use of this Product with the Vehicle.

Use of this Product may violate warranties from the manufacturer of the Vehicle or from others. The User must review and comply, and is solely responsible for reviewing and complying, with the terms and conditions of any such warranty.

Use of this Product may make the Vehicle non-compliant with applicable laws, make the Vehicle capable of generating unsafe driving speeds, make the Vehicle capable of exceeding tire speed ratings, make the Vehicle capable of exceeding RPM ratings of the engine, exceed stress limits of the engine, transmission, chassis, body, and other components of the Vehicle, destroy or damage mechanical, electrical, structural, or other components of the Vehicle, may require superior driving skills and techniques to handle the Vehicle, may make the Vehicle unsafe, and may lead to personal injury or property damage. The User must ensure, and is solely responsible for ensuring, the proper installation of this Product in the Vehicle in a manner compatible with other components of the Vehicle, and in accordance with the written instruction manual of Edge Racing Products, in accordance with industry standards and in a good and workmanlike manner, and in accordance with applicable law.

The User must ensure, and is solely responsible for ensuring, the proper, legal, and safe use of the Vehicle. Use of the Product in the Vehicle is at the sole risk and discretion of the User. The User acknowledges that motorsports, racing, and other competitions are dangerous and may cause death, other personal injury, or property damage.

Except as expressly provided in the written Limited Warranty from Edge Products issued for this Product , and to the greatest extent provided by applicable law, **this Product is sold on an AS IS, WHERE AS, and WITH ALL FAULTS basis, and Edge Products disclaims any and all warranties of any kind, whether express or implied, relating to this Product, including without limitation any implied warranty of merchantability, any implied warranty of fitness for a particular purpose, any warranty as to success in races or other competition, or any warranty made by any distributor or other third party.** Any such Limited Warranty is conditioned upon the User's compliance with the terms and conditions of this Disclaimer.

To the greatest extent provided by applicable law, the User, for himself/herself/itself and his/her/its heirs, personal representatives, successors, and assigns, hereby releases, discharges, indemnifies, and holds harmless Edge Products, LLC d/b/a Edge Racing and its agents, employees, officers, managers, members, subsidiaries, parents, successors, and assigns (the "Edge Racing Parties") from any and against any and all claims, causes of action, damages, injuries, losses, expenses, attorneys fees, and harm of any kind, whether or not foreseeable, directly or indirectly relating in whole or part to the use or installation of this Product in violation of the terms and conditions of this Disclaimer, any Edge Racing manual, directions, or instructions, and applicable law, any use of the Vehicle in violation of the terms and conditions of this Disclaimer and applicable law, and any other use of the Vehicle, regardless of the acts or omissions, whether negligently or otherwise occurring, of any Edge Racing Party. To the greatest extent provided by applicable law, each Edge Racing Party will not be liable for, and the User waives any right to seek against any Edge Racing Party, any consequential, indirect, special, statutory, exemplary, punitive, or incidental damages caused by the installation or use of this Product, and the liability of the Edge Racing Parties in the aggregate will be limited to the standard retail purchase price of this Product. User hereby expressly waives the provisions of California Civil Code Section 1542, to the extent applicable, which provides as follows:

> A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR.

Installation or other use of this Product constitutes the User's acknowledgement that the User has read and understand the warnings, cautions, terms and conditions in this Disclaimer and that the User agrees and consents to the terms and conditions of this Disclaimer; **OTHERWISE DO NOT INSTALL OR USE THIS PRODUCT.**

**You may sign and accept this disclaimer electronically at www.edgeproductsracing.com. If you do not have internet access you can print this form and fill out the section below. All fields are required in order to receive a product activation code. Once complete, fax this form to Edge Products at 801-337-2198.**

_____ date ____ / ____ / ____
Signature

_____ date ____ / ____ / ____
Signature of parent or guardian (if under 18 years old)

**Name:** _____ **Date of Birth:** _____

**Phone Number:** _____

**Address Line 1:**_____

**City:** _____ **State:** _____ **Zip:** _____

**Country:** _____ **E-mail address:** _____

**Year:** _____ **Make & Model:** _____

**VIN Number:**

_____

**Evolution ELECTRONIC Serial Number** _____

# LIMITATION OF WARRANTY

Edge Products, LLC, MSD Ignition, (hereafter "**SELLER**") gives Limited Warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of **SELLER's** product sold herewith. The **SELLER** shall be in no way responsible for the product's open use and service and the **BUYER** hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by a written instrument signed by **SELLER** and **BUYER**.

The Warranty is Limited to one (1) year from the date of sale and limited solely to the parts contained within the product's kit. All products that are in question of Warranty must be returned shipping prepaid to the **SELLER** and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Edge Products Inc.

Under no circumstances shall the **SELLER** be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or reinstallation of this product, or any other contingent expenses.

If the **BUYER** sends back a failed unit that is out of warranty and chooses to buy a refurbished unit, the refurbished unit will only carry a 60 day warranty. If the **BUYER** purchases a new unit at a predetermined discounted rate, it will have the standard 1 year warranty.

Under no circumstances will the **SELLER** be liable for any damage or expenses insured by reason of the use or sale of any such equipment.

IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT, THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN SIXTY (60) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND. **Note:** *Proof of purchase required for all warranty claims.*

**PLEASE NOTE, you will need to obtain an unlock code as described in the following *Unlock Racing Code* section before using the *Evolution*. Also, before installing this EDGE product, the *Evolution* unit should be updated. The Fusion software required for updating your product on your computer is included in this package as a CD. Follow the instructions located in the *Fusion Section* at the back of this Manual.**

**PLEASE take the time to register your product on line at edgeproducts.com. Follow the instructions at link:** http://www.edgeproducts.com/product_registration.php

**Programming your vehicle may expose existing defects in your vehicle's PCM that could disable your vehicle. It is advised that you do not program your vehicle in remote locations in case of vehicle failure. Also, if you have used another tuner/Programmer on your truck, you will need to program your truck back to stock before using the Evolution. *Failure to return to stock may result in PCM failure or engine damage.***

**All Edge modules and programmers are built to operate with OEM calibrations. When you take your vehicle to a service center they may, by your request or otherwise, update your vehicles calibrations. Therefore it is important that you return your vehicle to stock before taking it in for service. Edge updates its active products (i.e. those currently being manufactured) to work effectively with updated OEM calibrations. However, this process can take some time as Edge is not always made aware of calibration changes made by the OEM. In the case of discontinued products, Edge cannot ensure that your unit will work effectively if you take your vehicle to a dealership and you are given, by your request or otherwise, a new calibration.**

# *Registration and Activation/Unlock Code*

## Registration

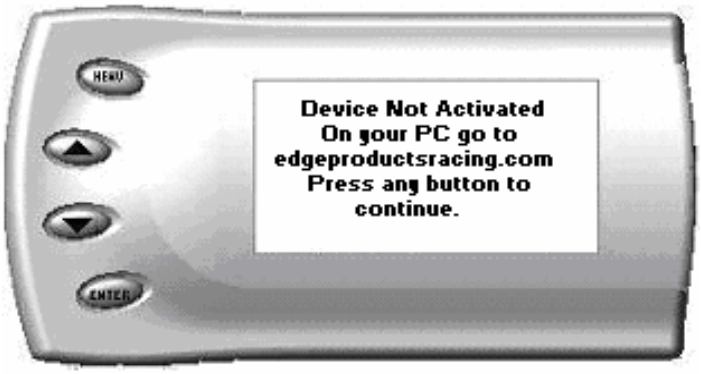
Thank you for purchasing a product from Edge, LLC, the leader in truck performance and power gain technology! We hope you enjoy it. Please take a few moments and go to www.edgeproducts.com and click on "product registration" to register your product.

Why register? Benefits of product registration:

- **Your Safety** – registering your product allows us to know exactly which product you have and provide important product updates to you that improve the quality and/or safety of the product
- **Enhanced Features** – almost all Edge products are easily updated via the internet. We are constantly adding new features and improvements to our product that we know you will want to enjoy
- **Confirmation of Ownership** – provides a record in case of product loss, theft, or required warranty work. When you call us for support our team will already have much of the information they need to help you!
- **Improved Product Development** – helps us better understand you (our customers) and design products that meet your needs
- **Special Offers** – allows us to inform you about special offers on accessories and/or new products that fit your vehicle and enhance your driving experience

## Activation & Unlock Code

Upon purchase of the *Racing Evolution*, you will also need to activate to obtain an unlock/disclaimer code to use the programmer. If you install the unit, and turn it on without the code, you will receive the following notice and have to stop and obtain the code before you can proceed with the installation.




To activate/unlock your *Evolution*, visit http://www.edgeproductsracing.com and follow the directions at the web location to receive the code. You will need the Ser# from the label located on the bottom edge of your *Evolution* monitor. The code will immediately be emailed to the email address you have entered, and you will have electronically signed and accepted responsibility for the use of this product.

After you receive the code, record it here for future reference. You will need this code at a later step during the installation.

| **Serial #** | | **Unlock Code** | |
|---|---|---|---|

**NOTE:** *If you do not have access to the internet, you may as an option completely fill out the information on P.4 and Fax both P. 3 & 4 to Edge Products at 801-337-2198. You will then receive your code by Fax, phone or email.*

# *About the Racing Evolution*

The following manual contains information and instructions on the proper use of the *Evolution*. Please read carefully before proceeding to program your vehicle.

**Note:** *Read the product disclaimer and the Getting Connected section before programming your vehicle.*

**Note:** *At the back of this manual, we have included commonly used acronyms. This should help while using the Evolution.*

## Stock Program

The *Evolution* automatically makes a backup of your stock program from your PCM before writing a new program onto your PCM. This assures that you will have the stock program if/when you desire to reprogram your vehicle to its original stock program.

It is ***strongly*** recommended prior to returning your vehicle to a service center or emissions check that you return your vehicle's computer to the stock program. In the event that the service center re-flashes your vehicle's computer (a common practice) and you have NOT returned it to stock, your *Evolution* programmer will be rendered useless. If this happens, call our technical support at (888) 360-EDGE and they can help you recover your *Evolution* for a small fee. Follow the steps included in this manual for returning your program to stock.

## Race Levels

**NOTE:** *Due to the high performance nature of these settings, on-highway usage including towing or hauling loads is not legal, and should not be allowed.*

The following power gains are representative of an actual test vehicle. These gains were measured on a Super Flow Dyno at an altitude of 4400 Ft. above sea level, and represent power delivered to the rear wheels of the test truck. The only modification made to the test truck was the addition of the Evolution. Power gains may vary somewhat on a different vehicle or in different geographic settings. (**Note:** *Level 0 is stock*)

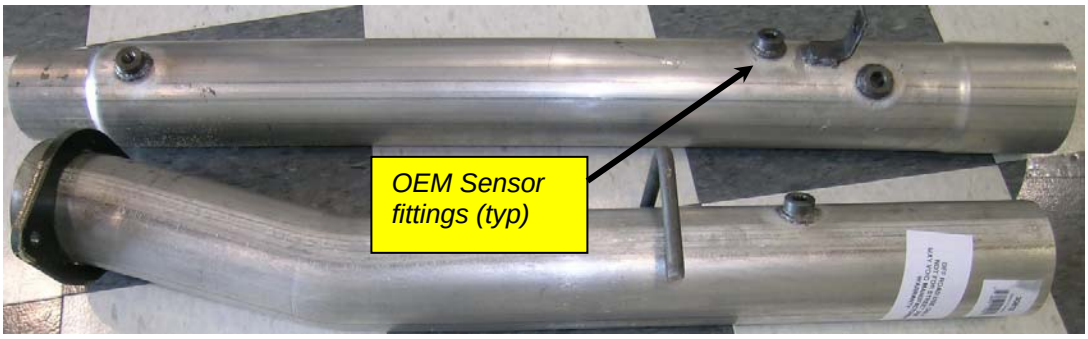
| RACE LEVEL GAINS | 6.4L HP | 6.4L TQ |
|---|---|---|
| RACE LEVEL 1 | 35 | 150 |
| RACE LEVEL 2 | 50 | 165 |
| RACE LEVEL 3 | 90 | 205 |
| *RACE LEVEL 4 | 140 | 260 |

- **Note***: Power levels may vary based on vehicle performance modifications.*

**NOTE:** ***Most racing is done with modified, free-flowing exhaust systems and Regeneration should be disabled. Only reference the following Regeneration sections if you have not modified the stock exhaust system and associated hardware and sensors from your 6.4L.***

**CAUTION NOTE:** *When you remove your DPF, you will need to replace with a "Delete Pipe" which has sensor replacement fittings. Reinstall your stock sensors in these fittings. Failure to install sensors may cause your vehicle to become disabled. Call Edge Technical support if this occurs.*

*The following picture shows an example of a DPF delete pipe with the included sensor fittings. The example shown is manufactured by Flow-Pro.*




**Example Delete pipe set**

**6.4 L: See the following Regeneration section and notes if you do not remove your DPF.**

# *Important Regeneration Information (6.4 L)*

Your vehicle is equipped with a diesel particulate filter (DPF). This filter is used in conjunction with a diesel oxidation catalyst. Together they work to reduce the amount of harmful exhaust emitted from the tailpipe. As soot builds up in the DPF it will begin restricting the filter. The soot that gathers is automatically purged in one of two ways: Passive Regeneration & Active Regeneration. Both methods occur automatically and require no action on your part. During either of these regeneration methods, you may notice an increase or change in the exhaust noise & increased EGT. (Exhaust gas temperature). *While this process is happening you will notice a fluctuation in EGT, even while maintaining a constant load. This process will occur as often as needed and is necessary for the proper operation of your vehicle's emission reduction system.*

## Passive Regeneration

Passive Regeneration is when the exhaust temperature (EGT) reaches an appropriate level in order to oxidize or burn soot to clean the DPF. This method happens as a result of normal engine operating conditions, typically when the engine reaches an EGT high enough to burn off the soot.

## Active Regeneration

If EGT's do not get hot enough to cause Passive Regeneration, then your truck's engine-control system automatically initiates an active regeneration. During active regeneration, the DPF is cleaned by raising the exhaust temperature to a point where the soot is burned away.

This is accomplished through various engine actions which raise the EGT's in the oxidation catalyst/DPF system to an appropriate high level where the soot is burned off. After the soot is burned off, the EGT's and back-pressure (restriction) fall back to normal levels.

## How does the evolution affect the DPF?

The *Evolution* utilizes aggressive fueling strategies in order to achieve horsepower gains. The added fueling may cause more instances of Passive Regeneration. Additionally, depending on your settings/driving style, you may also see Active Regeneration occur more often than you would with a stock vehicle.

In order to minimize the number of times that your vehicle will initiate Active regeneration;

- Avoid aggressive driving
- Avoid short aggressive bursts of acceleration, this may cause a large build up off soot, and the short sprints may not allow a regeneration cycle to initiate.

## Benefits the *Evolution* has on the DPF system

The *Evolution* contains two useful features for monitoring your truck's regeneration cycle. The *Evolution* has a built-in audible alert notifying you when the cycled is initiated. Edge strongly recommends you monitor and display the regeneration cycle in order to allow for a proper and complete regeneration cycle. Since the release of the DPF on the 2008 6.4L Ford pickup, it has been confirmed that DPFs may clog and become unusable if owners do not allow for a complete regeneration cycle. Even then, DPFs may still become clogged and unusable under normal use, with OEM equipment or aftermarket parts installed.

**Important Note:** *It is the customer's responsibility to watch for and ensure complete regeneration cycles. Edge Products' devices do not adversely affect the regeneration cycle of your vehicle. Any vehicle exhaust and emission system issues are the sole responsibility of the vehicle owner and the OEM. No DPF warranties are expressed or implied.*

# Features

## PIDs

The *Evolution* allows the user to view up to 4 PIDs at one time. PIDs identify an address in memory which contains vehicle operating information a driver may wish to monitor. (See the *Set Up* section)

## Diagnostics

The *Evolution* is also a powerful diagnostics tool. You can view any diagnostic trouble codes (DTCs) your vehicle may have, which in turn allows you to fix them. It will also allow you to turn off that annoying "Check Engine" light when the problem has been addressed (no more expensive trips to the dealer for a diagnostics scan).

## Performance

Another feature of the *Evolution* is the ability to determine your quarter mile times as well as your 0-60 times, and has a unique Christmas tree starting sequence.

## Alerts

If you would like to know when a certain parameter, such as transmission temperature, reaches a certain value you could set an alert to that value. When the preset value is reached, the *Evolution*'s screen will flash red and display the triggered alert and the current value for that particular alert parameter. Please note that Alerts may flash only if that parameter is being actively displayed on the *Evolution* monitor.

## Records

While driving, the *Evolution* will automatically record the highest values of some parameters. These records can be viewed and reset at any time. Please note that some parameters may record only if that parameter is actively displayed on the *Evolution* monitor.
**NOTE:** *For both* **Alerts** *and* **Records***, some truck types and years may flash alert and record peak parameter values even when not displayed on the Evolution monitor.*

## Tire Size

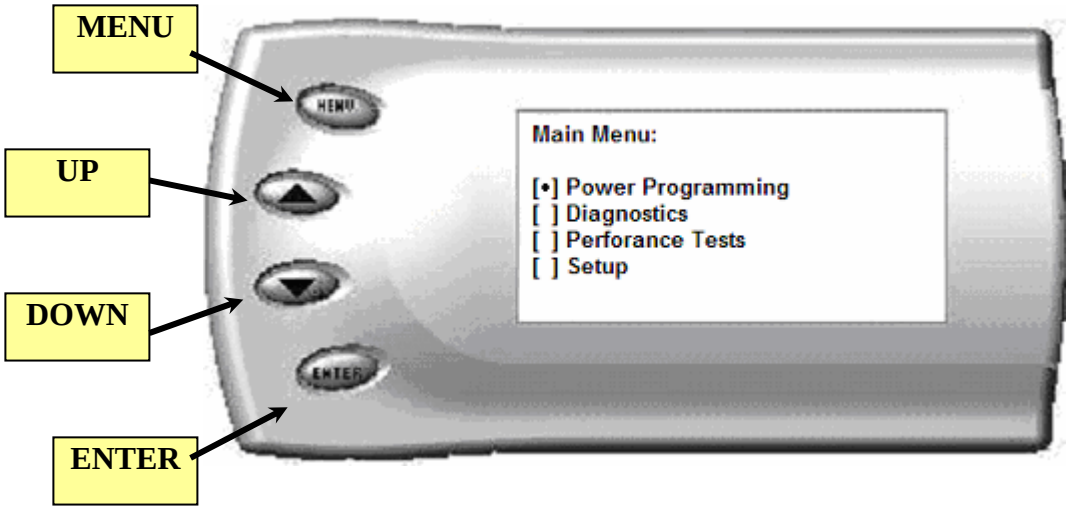
You can change the tire size value which will correct the MPH on your *Evolution* display as a result of changing from stock to new tire sizes

## Custom Options (only when you program a power level)

While programming your vehicle, you have the option to customize our tuning. These can be changed while programming your vehicle.

# *Display and Keypad*

The following picture is a sample *Evolution* screen. Great effort has gone into making the *Evolution* programmer very simple to use. The [UP] and [DOWN] arrow keys are used to scroll through options on the screen. The [ENTER] key is used to select desired options from a menu or move to the next screen. The [MENU] key is used to enter the Main Menu from the parameter display or return to the previous screen. This version of the *Evolution* also has the option to change the backlighting color of the display to a wide range of colors.




**NOTE:** *The Evolution uses an LCD display which has inherent limitations in operating temperature. If your screen is black, blank, or distorted and the temperature is above 158 degrees F (70 degrees C), please allow the device to cool and then it should work correctly. At extreme low temperatures (32 degrees F, or 0 degrees C) the display will update very slowly. Again wait for the device to warm to normal operating temperatures for the screen to function properly.*

# *Getting Connected-EGT*

The **6.4L Ford Model** truck does not need an external EGT thermocouple. The EGT data is received through the OBDII data link port. (Do not use the EDGE Thermocouple sensor if included.)

# Installing the Evolution (6.4 L)

The *Evolution* programmer connects to the OBDII diagnostic port of your vehicle. Follow these steps to install the *Evolution*:

1. With the drivers side door open, detach the weather stripping at the end of the dashboard. This will enable you to pull off the access panel that is located on the left side of the dashboard. (*see figure #1 & #2*).

**Figure #1**

**Figure #2**

2. Next, turn your ignition key to the OFF position. Locate the black diagnostic (OBDII) connector (*see Figure #3*) under the dash at the bottom of the access panel area. As you sit in your vehicle, it could be located right below your knee to the left of the break pedal. Sometimes the cover to this connector will be labeled "Data link."

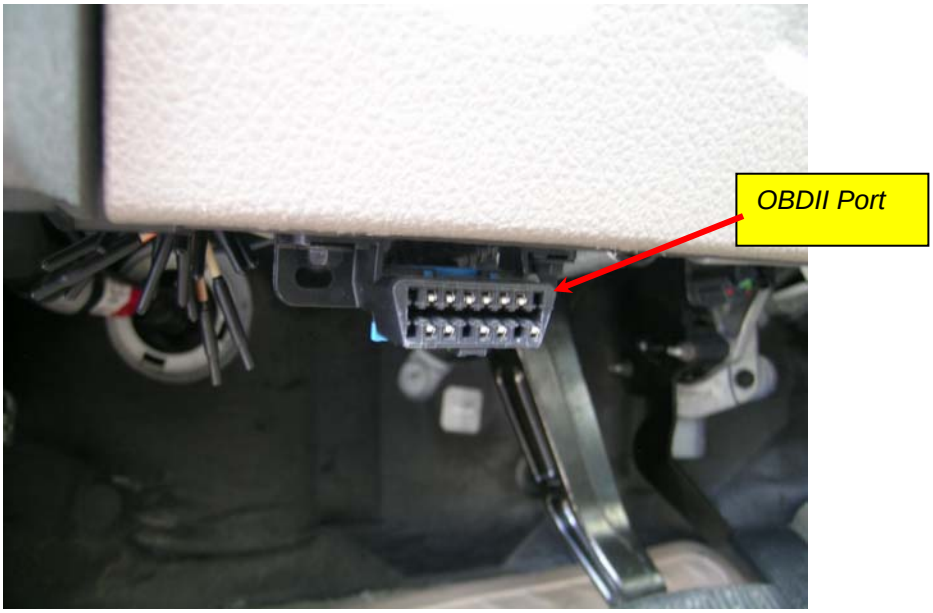



**Figure #3**

3. Connect the Edge Products harness connector to the OBDII port, and route the cable up over the bar behind the OBDII cable (*see Figure #3*), then run the cable toward the left end of the dash. Be sure to keep it above the emergency brake release lever. Route the end of the ODBII cable up behind the dash and out between the seal trim and the side panel on the dash (*shown in Figure #4*). Snake it up to the A-pillar of the vehicle and replace the dashboard access panel.

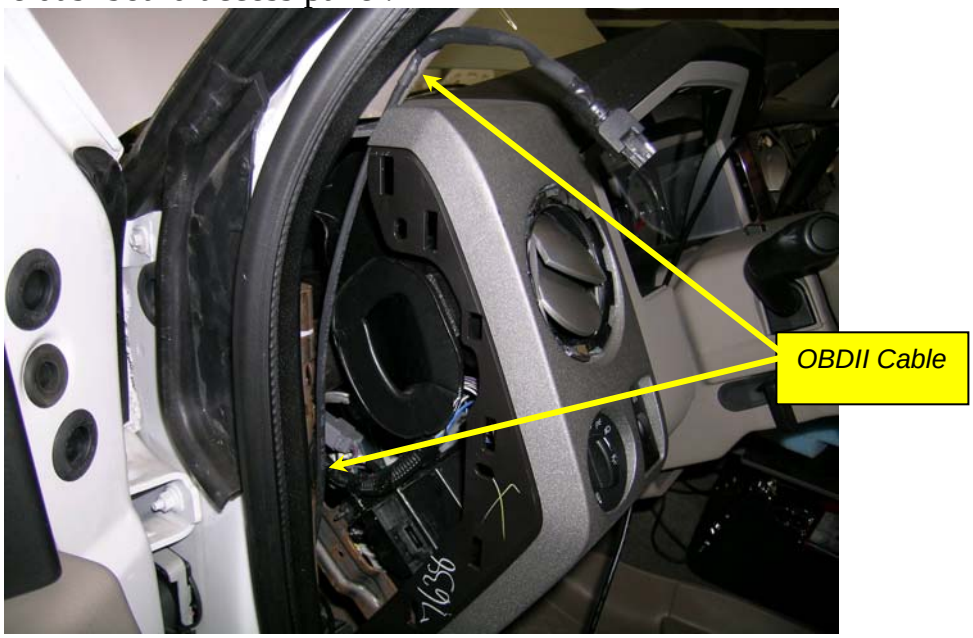
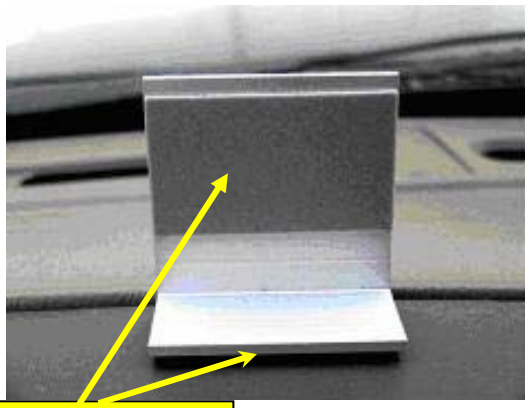



**Figure #4**

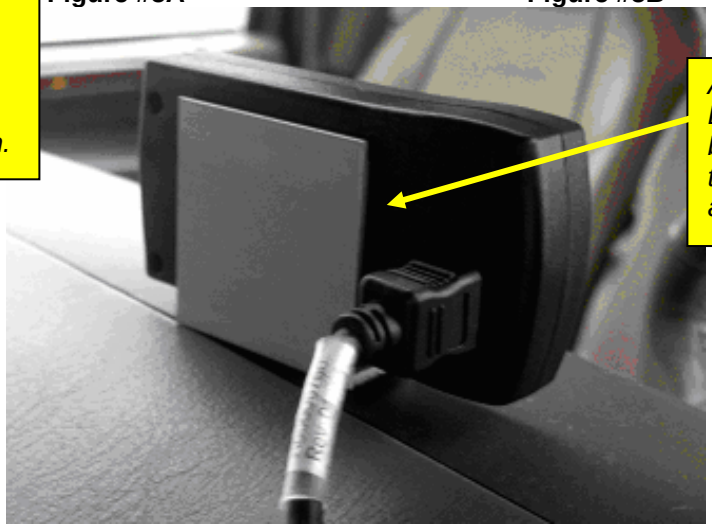
4. Feed roughly 8 to 10 inches of cable through the top of the dashboard.
5. With roughly 8-10 inches of cable fed through the dashboard, place the *Evolution* on the dashboard. Find a location on the dashboard to place the supplied L bracket and *Evolution* where you will be able to see the display and not block your vision of the road. Clean the location with soap and water to remove any protectant from the surface. Attach the bracket to the dash with the supplied Velcro and then attach the Evolution to the bracket using the two sided adhesive tape. (*see Figures #5A-C*) Some adjustment may be made by repositioning the bracket on the Velcro.



*Install the bracket with Velcro to the dash and apply two sided adhesive strip to bracket as shown.*

**Figure #5A**

**Figure #5B**



*Attach the Evolution to the bracket over the two sided adhesive strip.*

**Figure #5C**

6. If you did not purchase the optional Pod, proceed to step 12 (after the following *Optional Pod Installation* instructions).

**NOTE:** *You may optionally purchase an Edge pod to custom mount your Evolution to the dashboard. Go to http://www.edgeproducts.com, Mounting Devices, GM and Dash Pods to order this accessory. The following steps 7-11 show optional installation using the Mounting Pod accessory.*

## Optional Pod Installation:

7. With roughly 8 to 10 inches of cable fed through the dashboard, mount the Pod onto the dashboard (*shown in Figure #6*) with the end of the cable protruding through the front of the Pod.
8. To secure the Pod: Locate the brackets and the pod in your *Evolution* box. Note that the brackets are numbered and should be placed in the appropriate numbered locations inside the pod. Use the permanent double sided tape to secure the brackets to the inside of the pod, be sure that the numbers match.

   **NOTE:** *Be sure to check the position of the brackets while the Pod is resting in its desired location on the dash prior to attaching them to the Pod with the double sided tape over the matching numbers.*

9. Clean the pod location on the dash with hot soapy water and rinse, or use 70% Isopropyl alcohol. Thoroughly dry the dash. Attach the supplied Velcro to the bottom of the mounting brackets in the pod. Leave the protective backing on the bottom piece of Velcro, and test fit the pod so you have an idea of where you want it. Once you have determined the appropriate positioning, remove the backing paper from the brackets and attach inside the Pod. Then remove the backing paper from the Velcro, place the pod in its desired location, and firmly press down on the brackets (through the front of the pod) to secure the Velcro in place.
10. Insert the rubber gasket into the Pod opening. and attach the *Evolution* to the end cable which is protruding from the Pod.

**Figure #6 (6.4L)**

11. Insert the *Evolution* into the Pod. Any excess cable may be stuffed behind the *Evolution* or may be pulled back through the dash to eliminate slack.

The result of the installation is shown in *Figure #7*. Be sure to use the supplied cable ties to secure any excess cable underneath the dash to prevent the cable interfering with proper e-brake or pedal operation.

**Figure #7 (6.4L)**

12. With the *Evolution* securely in place, plug the cable connector into the OBDII Connector (*see Figure #8*)

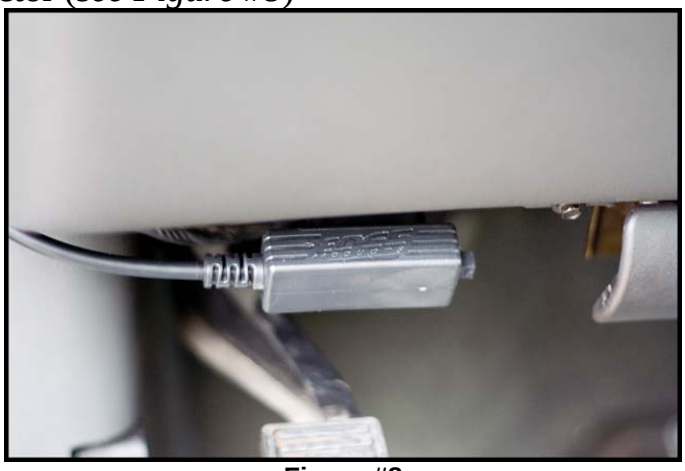
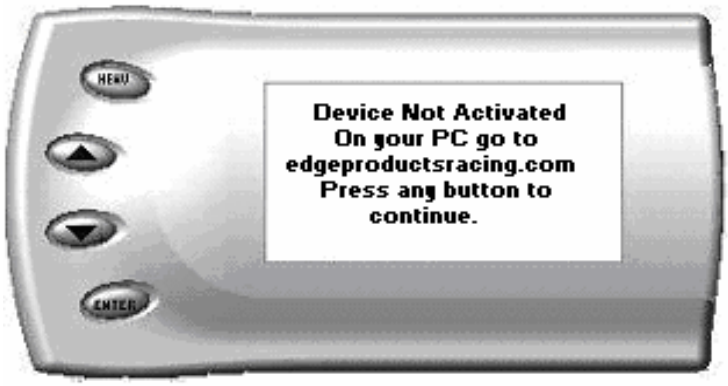


**Figure #8**

**Note:** *Unplug the OBDII connector if the truck will be sitting for a long period of time. This will eliminate unnecessary power draw.*

13. A *Device Not Activated* screen will display. If you have received your Unlock Code, you may press [ENTER] and continue. Otherwise follow the directions or go to the *Registration and Race Unlock Code* section and obtain the code as instructed.




14. After pressing [ENTER], the following screen will appear. Enter the code by using the up and down arrow buttons and [ENTER] button alternately until the last digit is entered. (**Note:** *The up arrow displays numerals.*)

15. After pressing [ENTER], a screen will appear asking you to write down the Unlock code for future reference. Press [ENTER] to continue.

16. After pressing [ENTER], you will read (4) screens with the following note concerning the use of the Racing Evolution. Press [ENTER] after each screen.

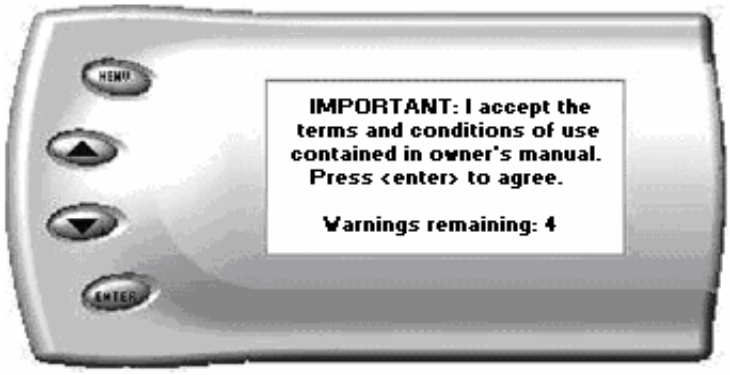
    IMPORTANT: This product is neither intended nor sold for use on pollution-controlled, diesel-powered vehicles operated on roads or highways.

    As such, it is not certified under the anti-tampering provisions of CA Vehicle Codes 27156 or 38391 and can only be legally used during organized motorsports events.

    This product is specifically designed and intended for vehicles engaged in legal off-road racing/pulling activities only.

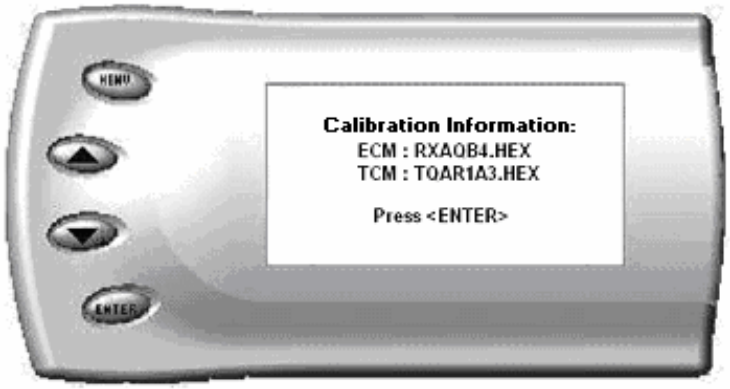
    Press <ENTER> to accept that you understand the intended use of this product and accept all liability associated with the improper use of this product.

17. After pressing [ENTER], the following screen will appear. Follow the directions and press [ENTER] to accept terms (**Note:** This screen will repeat several more times during start up.)


MENU
ENTER
IMPORTANT: I accept the terms and conditions of use contained in owner's manual. Press <enter> to agree.
Warnings remaining: 4

18. After you agree to the terms by pressing [ENTER], the following screen will be displayed: (**Note:** *If your key is on, you will not see this screen*)

19. After initialization, the following Calibration information is displayed




This screen shows the calibration info of the truck that the *Evolution* is currently connected to.

**Note:** *If no calibration information is shown, disconnect from the OBDII plug and reconnect after 5 seconds. When you come to the screen again, the code should be available.*

20. After pressing [ENTER], the main display will come up. **Note:** *Parameters and values might vary.*

There are five boxes that will display information about your vehicle. The black box in the top right corner displays which power level is currently programmed onto your vehicle.

**0** – Vehicle is currently at stock.
**1 – 4** If vehicle has been programmed to increasingly higher racing levels with 1 being the lowest and 4 being the highest.

The other four boxes can show up to 4 PIDs (Parameter IDs) of your vehicle. By default, they are your vehicle's RPM, Regen, MPH, and EGT. Optional parameters and display formats may be selected in the *Changing Display* section of this manual.

21. The display backlight brightness can also be controlled from the main display by using the [UP] and [DOWN] arrow keys.

22. From the main display, press [MENU] to display and select other features of the *Evolution*. The *Main Menu* is shown on the following screen.

# *Power Programming*

**"Caution: Vehicle manufacturers do not recommend vehicle programming in extreme temperature. Please see the service manual of your vehicle to ensure that programming is being done in accordance to the original equipment manufacturers specifications."**

1. From the main screen, press [MENU] to enter the *Main Menu*. Then select *Power Programming*. The following screen will appear. Read the Warning and press [ENTER].

MENU
Warning: Edge Racing tunes can exceed the capabilities of your vehicle. For more information please review the disclaimer of liability form that you signed to activate this product.
ENTER

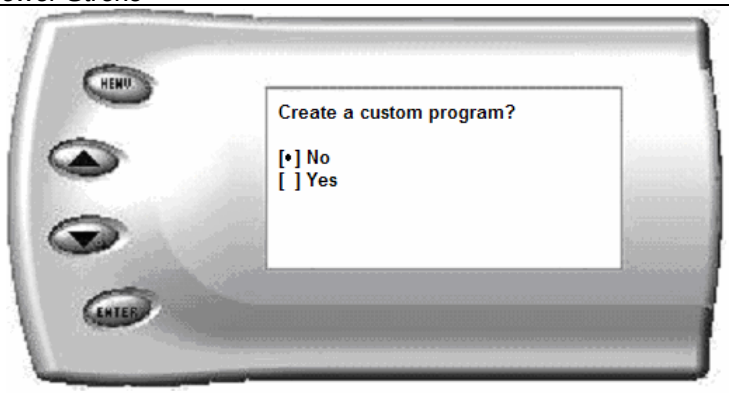
2. After pressing [ENTER], select the level that best meets your needs from this screen. Use the up and down arrows to scroll through the levels. For more information about race levels, read the *About the Evolution* section in this manual.

3. After selecting a Race level, press [ENTER]. The following screen will appear just once reminding you that you will have Custom Options only after you have completed your first program. (To set custom options, you will need to program the Race level a second time). Press [ENTER]

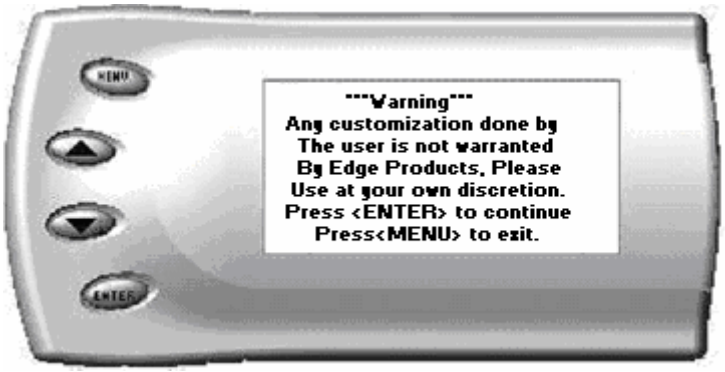
You must complete a full programming session before the Custom Options menu is available. Check your User Guide for detals.
Press any button...

4. Choose a Program screen will appear again. Confirm your selection by pressing [ENTER] on the *Programming Level* screen that will follow.
5. The *Evolution* will ask you to turn the key OFF and then ON. Do NOT crank or start the engine or possible programming failure may result.
6. During the first use, the *Evolution* will read the original calibration from your ECM and then build all the necessary programs. This step is skipped during all further programming operations. The *Evolution* will erase and then write the selected calibration (level) onto the ECM. This will take several minutes. If at any time you receive an error message, refer to the *Troubleshooting* section at the back of this manual for further instructions.
7. The *Evolution* will prepare the stock files, save the stock files, and then the screen below will appear:

8. When the *Evolution* is done programming you can press [ENTER] or [MENU] to return to the Main Menu. When you press [ENTER] the following screen will appear:




9. After your initial tune you have the option to change certain parameters of the level you chose. Refer to the following *Custom Options* section in the manual for available options. To use the standard program without customizing options, simply press [ENTER] (choose NO). If you choose to use a custom option you will see the following warning:




10. If at any time you wish to return to stock, return to *Choose a Program* menu and select *Return to Stock*, press [ENTER] and follow the directions

## Custom Options

When programming your vehicle, you will have the option to change certain parameters. Choosing YES when prompted to "Create a custom program?" will load the *Custom Options* menu.

**Custom Options are provided to allow for flexibility based on driver preferences. Any option customization done by the user is not warranted by Edge Products. Please use at your own discretion.**

**The following options are available and when adjusting the values, it is highly advised to make gradual changes as opposed to aggressive changes. This will help avoid possible engine or transmission damage.**

## Speed Limiter (6.4 L)

The Speed Limiter restricts the top speed of the vehicle. Factory speed limit values are generally based on the tolerances of the driveline components.

***CAUTION!** *Your Evolution programmer has the ability to remove/adjust your vehicle's factory speed limiter. Removal/adjustment of the factory speed limiter is intended for use at a closed circuit, legally sanctioned racing environment. Even if racing in a legally sanctioned racing environment, it is your responsibility to ensure your tires and other vehicle components are rated to travel at increased speeds with the speed limiter removed/adjusted. If you remove/adjust the speed limiter during highway driving*, it is your responsibility to obey all driving laws, including adhering to posted speed limits. Removing/adjusting the speed limiter for purposes inconsistent with the product's intended function, as stated herein, is a violation of the product's intended use and invalidates the product's warranty. Edge Products is not responsible for, or liable for the consequences of improper product use.* (***NOTE:** *Edge Racing products are intended for legal race/competition use only.*)

## Rev. Limiter (6.4 L) (Not available, but coming soon)

The Rev. Limiter prevents the engine from over-revving and causing engine damage. If you set this value to 2500, you would not be able to rev the engine beyond that even with the accelerator to the floor. Setting this value higher can help take advantage of the power generated at higher RPMs. Setting this value too high can cause damage to your engine. **NOTE:** *Make sure to set the Rev. Limiter at least 150 RPM higher than the highest WOT Shift Point or you may experience erratic shifting.*

## DPF Filter Installed

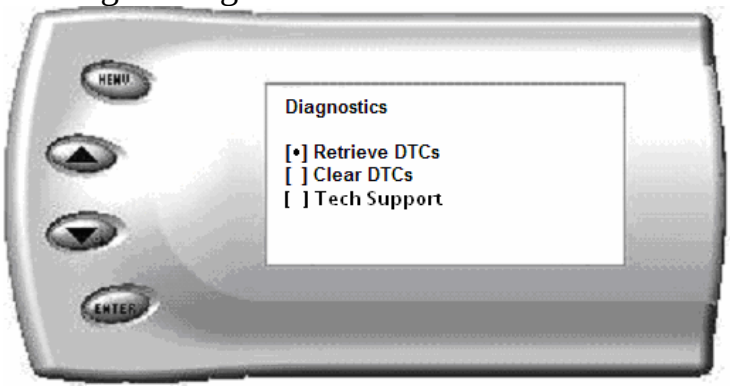
Most racing is done with modified, free-flowing exhaust systems and the particulate filter is usually removed and DPF Regeneration should be disabled. Select Yes or No and press [ENTER].

**Note:** *After creating an initial custom program, you will be able to reload the options into any future programs by selecting the "Load Previous Settings" option. From there, you can modify the values more if desired.*

# Diagnostics

The diagnostics scanner included with your *Evolution* is a powerful tool that allows you to view and clear diagnostic trouble codes (DTCs) on your vehicle. DTCs are the messages your vehicle's computer stores when it detects a problem with your vehicle. The "Check Engine" light on your dash is activated by the presence of most DTCs.

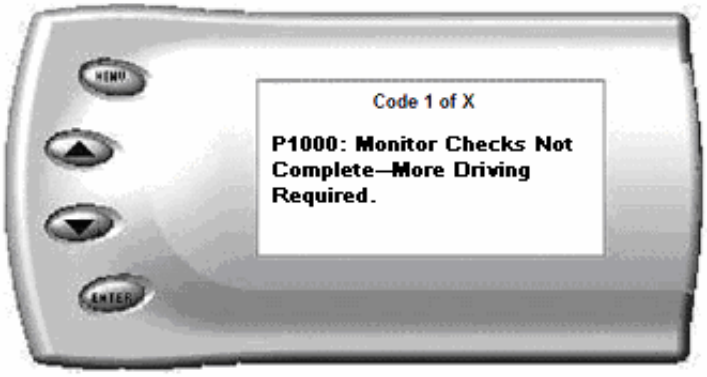
If you selected *Diagnostics* from the main menu of the *Evolution*, the screen displays the following message:




## Retrieving Codes

If you want to retrieve and view the DTCs on your vehicle, select the *Retrieve* option. Make sure your ignition is in the ON position.

After selecting the *Retrieve* option, any stored DTCs will appear on the screen like the following example:




Press [MENU] to exit the DTC list and return to the previous menu.

If you have no trouble codes found, the following screen will appear:

## Clearing Codes

If you want to clear the DTCs on your vehicle, select the *Clear DTCs* option. After selecting the *Clear DTCs* option, any current stored DTCs will be cleared from your vehicle and the "Check Engine" light will go out. However, if you do not address the issue that originally caused the DTC, the DTC may set again and the "Check Engine" light will come back on. Once the DTCs have been cleared, press [ENTER] to return to the previous menu.

## Tech Support

Information found in this section is normally only accessed when instructed by an Edge technical support person. For example, *Version Info* displays the current Bootloader, Firmware, and Calibration versions installed on your *Evolution.* Your vehicle's HEX code is also shown. Using the Fusion® software (see Fusion section at back of manual), you will be able to access online updates to ensure your *Evolution* is always up to date.

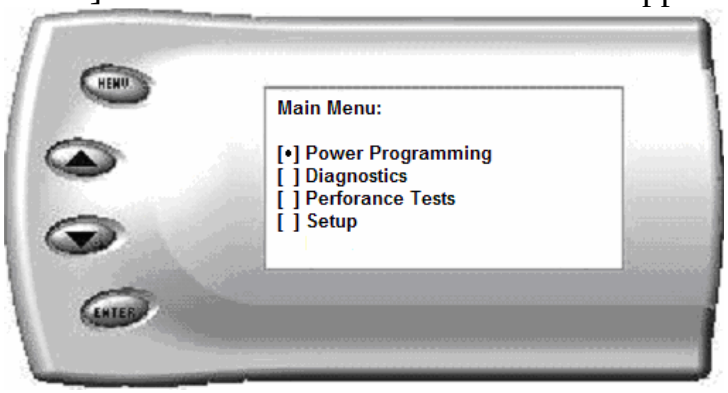
## Self Test Mode (found in Tech Support section)

The *Evolution* has the ability to run through a series of self tests to make sure that it is functioning correctly. To initiate this test, select *Self Test,* and choose from the options listed.

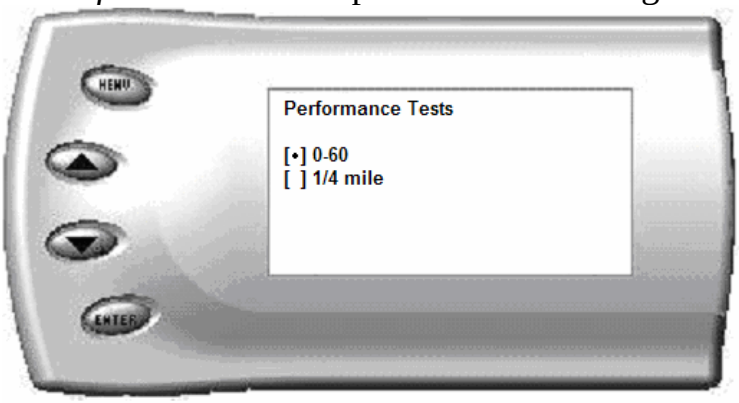
# *Performance Tests*

The *Evolution* allows you to test the performance of your vehicle by timing the 0-60 and the quarter mile times. It is helpful to remember these might not be results you would receive from actual races. Incorrect speedometer reading and tire slippage can cause slight miscalculations in the displayed results. To run these tests, perform the following steps:

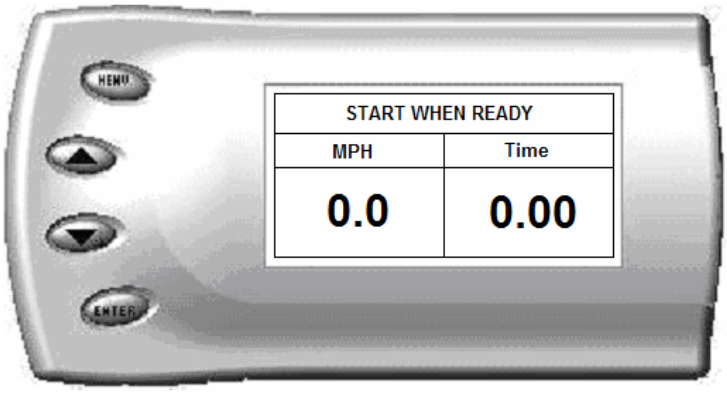
1. Press [MENU] and the *Main Menu* screen should appear:



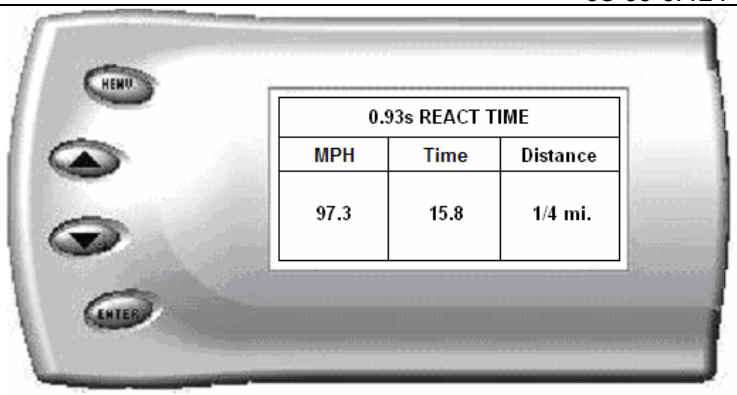

2. Select the *Performance Tests* option. The following screen appears:




3. Select the desired performance test (0-60 screen is shown below). If your vehicle is moving at this time, the *Evolution* will ask you to come to a stop.




4. For the 0-60 MPH run, press the accelerator pedal and the test automatically begins. For the ¼ mile test, you will be asked to press a key when ready. It will then cycle through a starting light sequence (Christmas tree) and tells you when to go. As you drive, the screen should be displaying your current speed. When the test is complete (the desired distance or speed is reached), the test will automatically stop and your time will be displayed on the screen as follows (quarter mile result example)




This will show how long it took you to cover 60 feet, 1/8 mile, and ¼ mile. In addition, your MPH at ¼ mile will also be shown (see the example above). The best run is stored for later viewing. You may also use the back of this manual to write down your times.

At the end of a ¼ mile run, you will see a reaction time at the top of the screen. This time begins when the final yellow light is displayed. The time between the final yellow and the green is a ½ second, so a perfect reaction time is a ½ second. The average person will see a response time of around 1 second. You'll get an "Illegal Start" message if you start before the green and you're screen will turn red. You can still finish the run, but the screen will let you know that you started before the green light.

**Note:** *Best speed and time is recorded for viewing in the Records section, and is updated when you beat your last best performance.*

5. After the test is complete, press [MENU] to return to the Performance Menu.

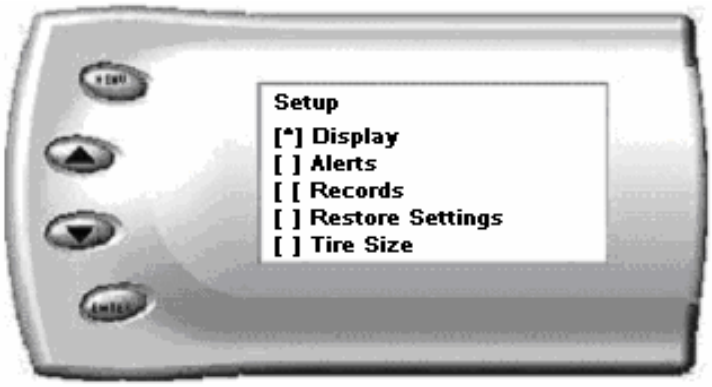
# Setup

The *Evolution* gives you even more additional features. You can choose from several different parameters to monitor, how these parameters are displayed, set parameter alerts, and view the highest value that certain parameters have reached.

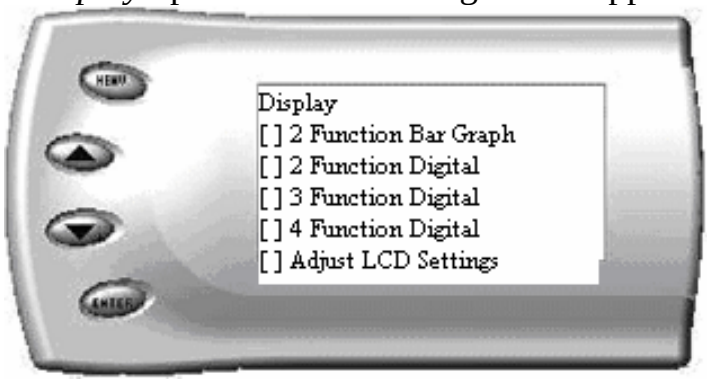
## Changing the Display View

The *Evolution* allows you to view multiple engine parameters on the same screen. To select a desired view, perform the following steps:

1. From the *Main Menu* select the *Setup* option. The *Setup* screen appears as follows:

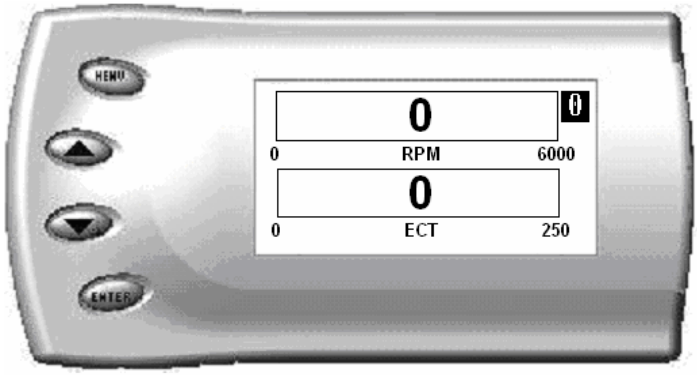



2. Select the *Display* option. The following screen appears:

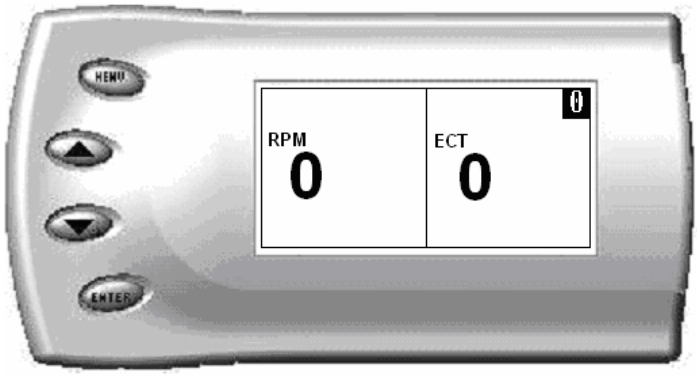



3. Select the desired viewing option by using the [UP] and [DOWN] arrows and pressing the [ENTER] key on the desired display type. Below are examples of the display options:

## Two Function Bar Graph Display Sample

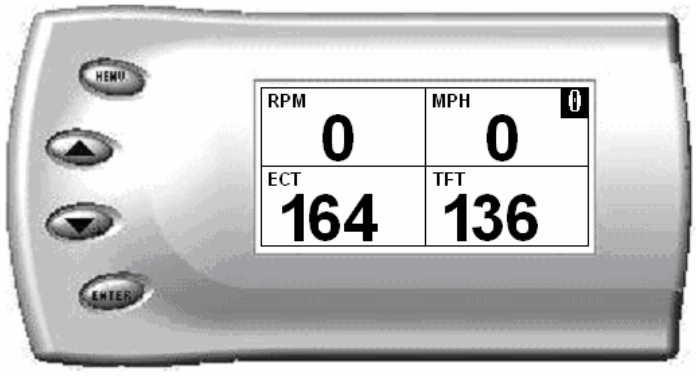


## Two Function Digital Display Sample




## Three Function Digital Display Sample

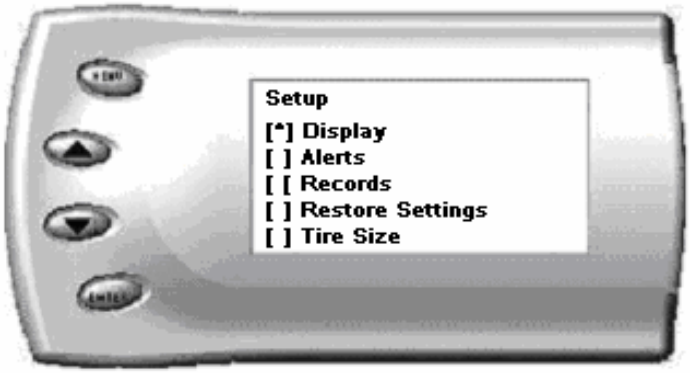
## Four Function Digital Display Sample



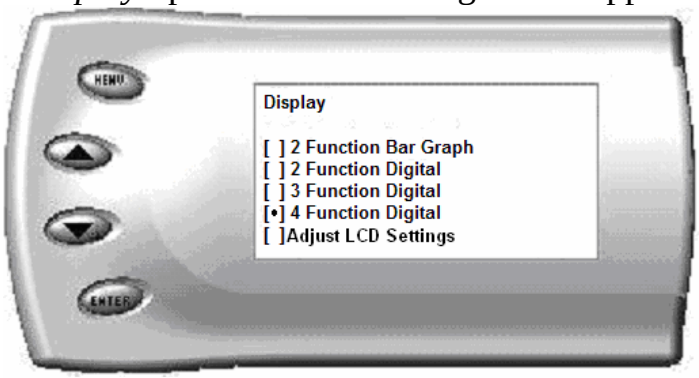

## Changing the Variables on the Screen

To change the variables on the screen, perform the following steps:

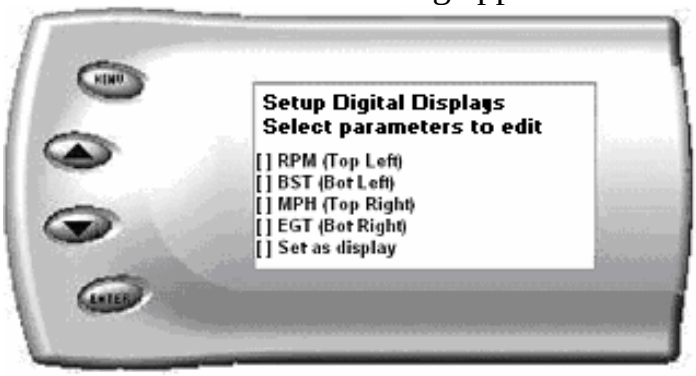
1. From the *Main Menu* select the *Setup* option. The *Setup* screen appears as follows:




2. Select the *Display* option. The following screen appears:




3. Select the style which you would like the parameters to be displayed on your screen and press [ENTER]. Depending on which display you select, a screen similar to the following appears:




4. This screen lists the current parameters being displayed and their respective positions on the screen (i.e., TOP LEFT, etc.). Select the position you would like to change and press [ENTER]. A list of available parameters will be displayed. Select the parameter you would like to view and press [ENTER]. (A list of commonly used acronyms is located in the back of this manual and an in depth list of the PIDs supported follows). Once you have selected your desired parameters, select the *Set as Display* option and press [ENTER]. You will return to the *Setup* menu with your new settings saved.

Below is a list of the 13 PIDs you can display and description of each:

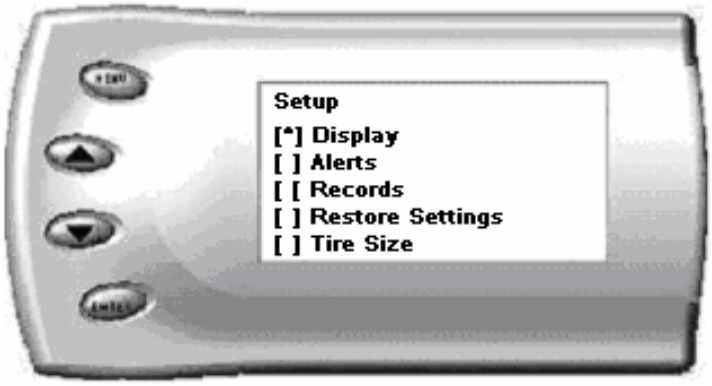
- RPM (revolutions per minute) – (Engine speed)
- MPH (Vehicle Speed) (miles per hour) – **Note:** *MPH will read "0" unless you enter a tire size into the Evolution, even with stock tires.*
- BST (Boost Pressure) - PSI
- EGT (Exhaust Gas Temp) – Degrees F.
- ECT (engine temperature; coolant) – Degrees F.
- EOT (Engine oil temperature) – Degrees F.
- TFT (Transmission fluid temperature) – Degrees F.
- IAT (Intake air temperature) – Degrees F.
- LOAD (Engine Load) – Calculated engine Load
- BARO (Barometric pressure) – PSI
- BAT (Battery voltage)
- DTC (Diagnostic trouble code count)
- DPF Regeneration (Diesel Particulate Filter Regen cycle on 6.4 L)

# Changing the Backlighting

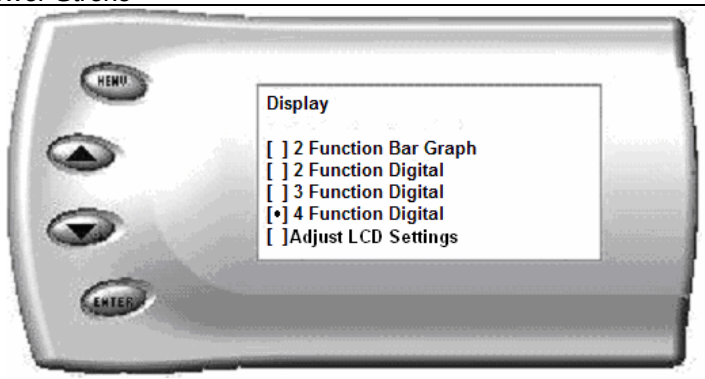
## Adjusting the Backlight Color/Contrast

To change the backlighting color, perform the following steps:

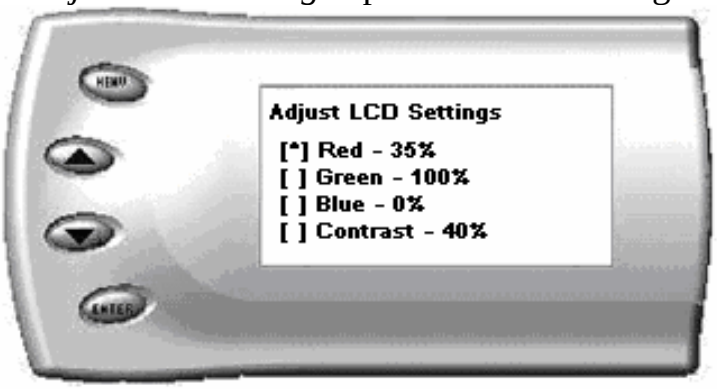
1. From the *Main Menu* select the *Setup* option. The *Setup* screen appears as follows:



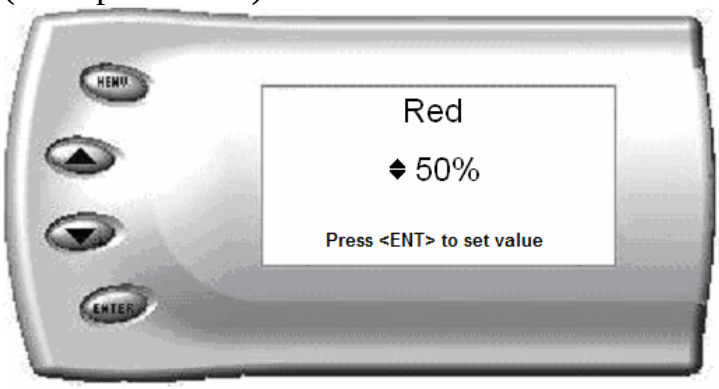

2. Select the *Display* option. The following screen appears:




3. Select the *Adjust LCD Settings* option. The following screen appears:




4. Select the color you would like to change.
5. Depending on the color you select, a screen similar to the following appears (example of Red):

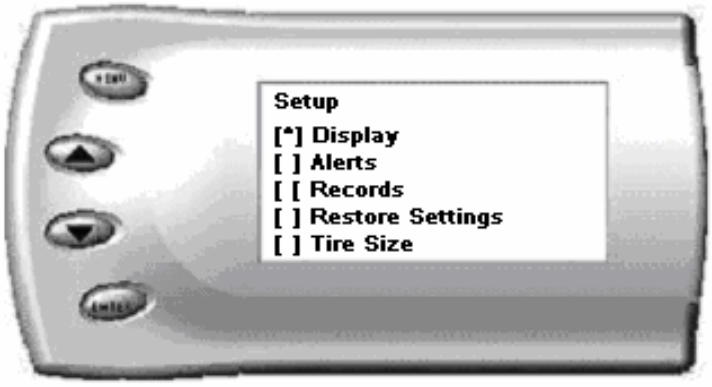



6. As you adjust the percentage shown on the screen, you should notice a change in the color of the screen. Once the desired color value has been reached, press [ENTER]. If you would like to return to the previous screen and abort the current color change, press [MENU].

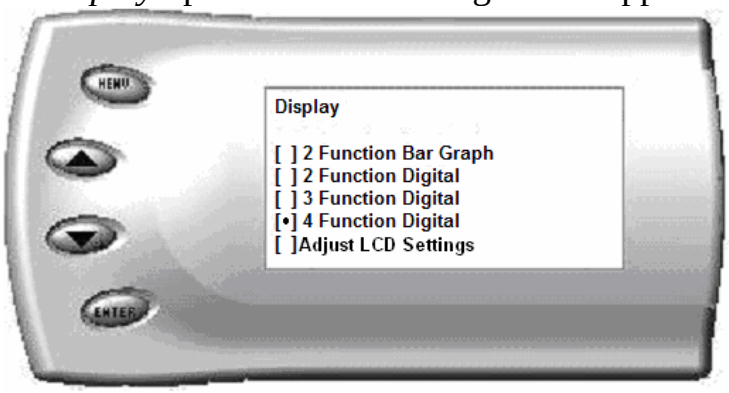
## Adjusting the Contrast

To change the contrast, perform the following steps:

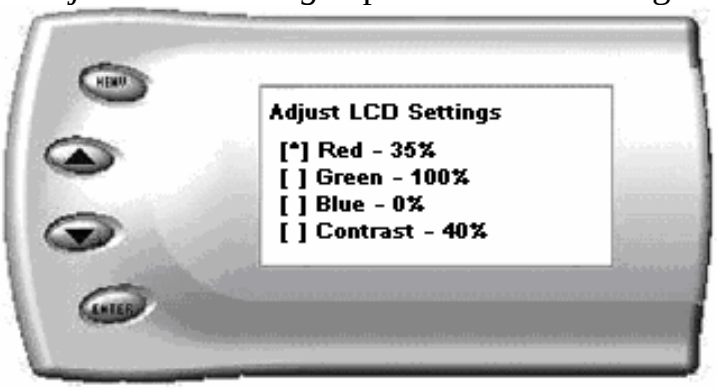
1. From the *Main Menu* select the *Setup* option. The *Setup* screen appears as follows:




2. Select the *Display* option. The following screen appears:



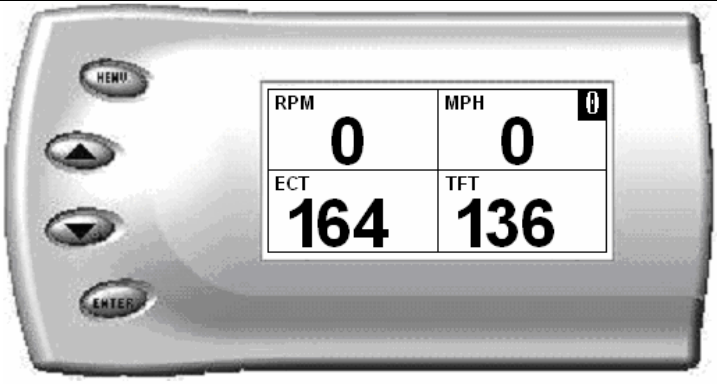

3. Select the *Adjust LCD Settings* option. The following screen appears:




4. Select *Contrast*, and use the up and down arrows to adjust the contrast to where you'd like.

## Adjusting the Backlight Brightness

When viewing engine parameters (like the sample below) press the [UP] and [DOWN] arrow keys to adjust the brightness of the display. Each time the button is pressed the backlight will either brighten or dim by 10% of the total brightness. The default setting is 100% brightness.



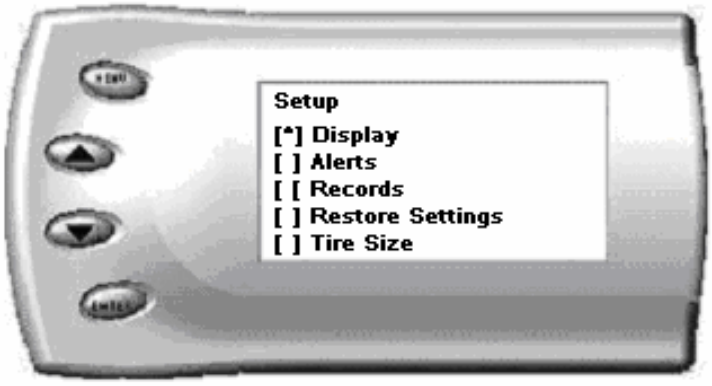

## Alerts

If you would like to know when a certain parameter reaches a certain value, you can set an alert for that parameter by following these steps:

Following is a list of Alerts you may adjust and set limits for:

- EGT Alert
- Speed Alert
- RPM Alert
- EngOilTmp Alert
- EngTmp Alert
- TransTmp Alert
- DTC Alert
- Regen Alert (6.4 L only)

1. From the *Main Menu* select the *Setup* option. The *Setup* screen appears as follows:




2. Select the *Alerts* option. The following screen appears:

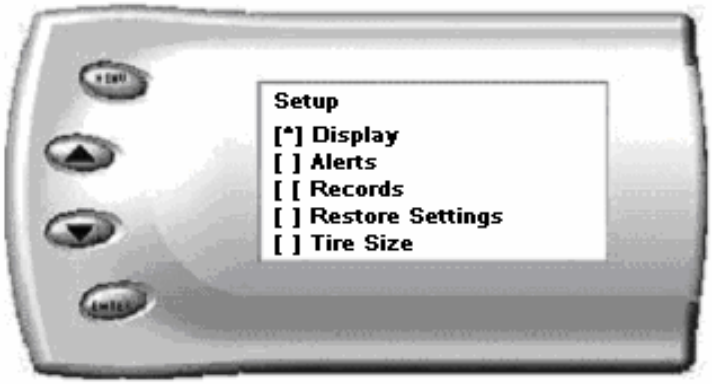
3. By default, the alerts are off. To turn them on, select the *Alerts are Off* option and press [ENTER]. The text line will now read *Alerts are On*. To change the value of a certain alert, select the parameter you want to change and press [ENTER]. The screen similar to the following will appear:

4. Press the [UP] and [DOWN] arrow keys until you have reached the desired value. Pressing [ENTER] will save the current alert value and return you to the Alerts screen. If you would like to change another parameter, select that parameter and repeat the steps.
5. If you would like to return to the previous screen and abort the current value change, press [MENU].
6. When alerts are On, and multiple alerts are detected, the *Evolution* will only display one. For example: if you exceed the set point for both MPH and RPM, the first alert the *Evolution* detects will be the one displayed. Pressing any button will temporarily disable the alert until the vehicle falls below the set point and then will automatically re-enable.

# Records

The *Evolution* automatically records the highest value of some of the parameters. To view these records and to reset them, do the following:

1. From the *Main Menu* select the *Setup* option. The *Setup* screen appears as follows:




2. Select the *Records* option. The following screen appears:

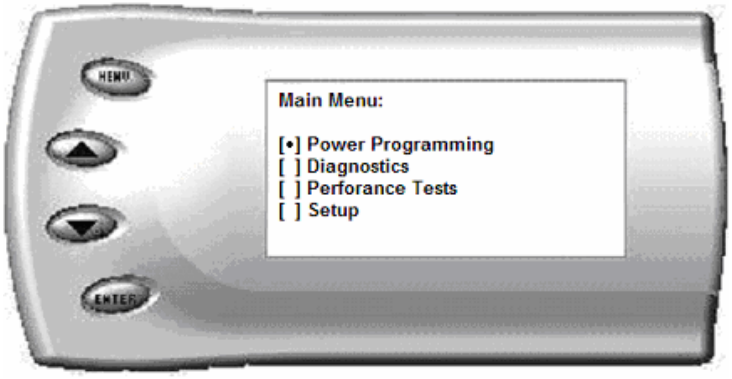
3. This is where you can view all of the current recorded high values. The arrow located at the bottom right corner of the screen indicates there are more parameters than the display can show. Use the [UP] and [DOWN] arrow keys to scroll through the list of records. If you would like to reset a single parameter, select the desired parameter and press [ENTER]. If you would like to reset all of the records, select the *Clear All* option and press [ENTER]. To exit out of this list press [MENU].

# Restore Evo Settings (Reset Evo Settings)

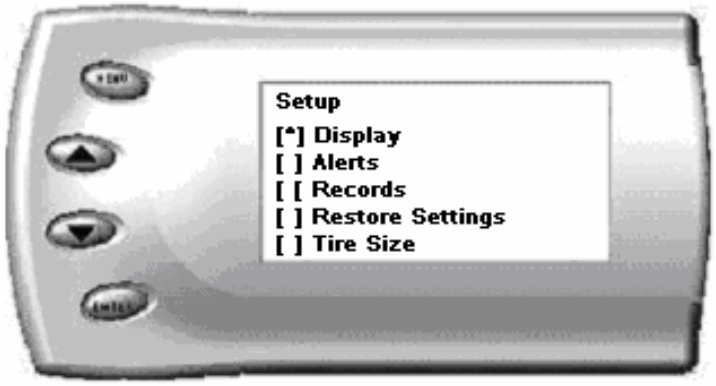
If you would like to restore the *Evolution* back to its original factory settings, follow these steps.

**Note:** *This will not program the vehicle back to stock power; it will only reset the Evolution display options, alerts and records back to the preset defaults from Edge Products. To program the vehicles power level back to stock, you will need to go into "Power Programming", and select "Return to Stock", or power level 0.*

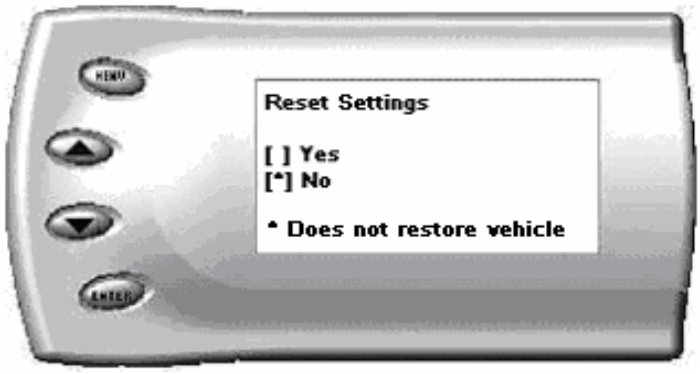
1. Enter into the *Main Menu*. The *Main Menu* screen appears as follows:



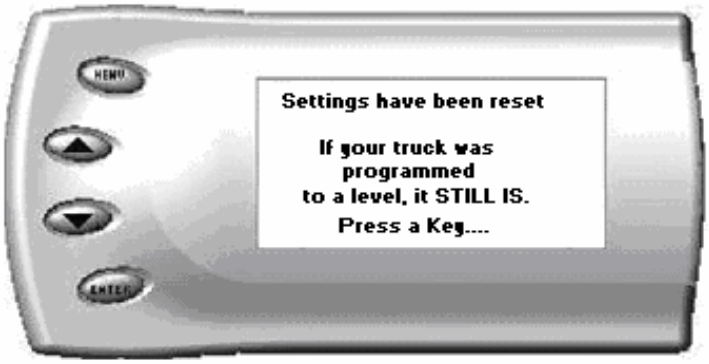

2. Select *Setup* and press [ENTER]. The following screen will be shown:




3. Select *Restore Settings* and press [ENTER]. The following screen will be shown.




4. Select *Yes* and press [ENTER]. The following screen will be shown.




5. The *Evolution* settings have now been reset to match the settings as originally purchased and supplied from Edge Products. Press [MENU] to return to the *Main Menu.*

## Tire Size (6.4 L)

From the *Main Menu*, select *Setup* and press *Enter*. The following screen will be shown:

The *Evolution* has the ability to correct for changes in tire size. *If you have changed your tires to a different size*, the PCM will miscalculate vehicle speed which can affect shifting as well as your vehicle speedometer accuracy.

**NOTE:** *If you would like the Evolution to display the correct MPH, you will need to enter in a tire size. Your vehicle speedometer will remain inaccurate.*

To change your tire size, two formats are available for you to use; you will only need to choose one format.

P-METRIC – This is one of the most common formats used. The tire size will be printed on the tire.
Example: 275 / 75 R16

ENGLISH – This looks much like the P_METRIC format. The first number will represent the height of the tire in inches
Example: 35 x 20 R17

After choosing to set your *Tire Size*, the follow screen (Metric) appears:

The numbers on this screen represent your tire size. The default value the *Evolution* displays is the current value stored in the PCM. Adjust the tire size by pressing the [UP] and [DOWN] arrow keys and alternately pressing [ENTER]. The following table may help you determine your common tire size.

| Width | Ratio | Rim | Circumference | Width | Ratio | Rim | Circumference |
|---|---|---|---|---|---|---|---|
| 265 | 70 | 16 | 2441mm | 315 | 75 | 16 | 2760mm |
| 275 | 70 | 16 | 2485mm | 325 | 75 | 16 | 2807mm |
| 305 | 70 | 16 | 2617mm | 265 | 70 | 17 | 2521mm |
| 215 | 75 | 16 | 2289mm | 285 | 75 | 17 | 2698mm |
| 245 | 75 | 16 | 2430mm | 315 | 75 | 17 | 2840mm |
| 265 | 75 | 16 | 2524mm | 275 | 65 | 18 | 2559mm |
| 285 | 75 | 16 | 2618mm | 285 | 65 | 18 | 2600mm |
| 295 | 75 | 16 | 2666mm | 285 | 60 | 18 | 2510mm |
| 305 | 75 | 16 | 2713mm | 325 | 60 | 18 | 2660mm |

# Fusion® PC Software

Fusion® software allows the user to update their *Evolution* to the latest version of firmware and calibration files. The software can be downloaded for free from Edge Products website at www.edgeproducts.com , or the CD can be requested by calling (801) 476-3343.

**Note:** *Make sure you install both the SOFTWARE and the DRIVERS before hooking up the Evolution to your PC. During the installation you will be given the chance to install the drivers. Just hit the "Install" button when it asks. If you do not do this step and want to install the drivers at a later time the Driver installation can be found in the folder where Fusion was installed. This location is* ***C:\EdgeProducts\FusionClient\Evolution_Driver\CP210xVCPInstaller.exe.*** *Failing to do so will cause the software to not work properly with the device.*

Connecting the *Evolution* to a PC is as easy as finding an open USB port, installing the provided USB cable, attaching the *Evolution* to the cable, and running the Fusion® software. (**NOTE:** *The Evolution needs to be returned to stock on the truck before removing and performing any updates. If this is not done, the software will not allow you to continue.)*

**NOTE:** *If Lightning Software had previously been installed on your computer, do not use. If you have previously installed* Fusion®*, you do not need to reinstall. Instead, go to START on your computer tool bar, open all programs, open EDGE PRODUCTS and select Fusion. At this point you will be prompted to connect your device (Evolution monitor) to the computer. You will need to attach the supplied USB cable to an active USB port on your computer and plug into the side of the Evolution monitor*

## Checking for Updates

The Fusion software will check for updates automatically each time it is started. Install the updates when prompted to keep your Fusion current.

In order to update your *Evolution* it must first be connected to your PC via a USB port. You will notice when you first connect it that it will try to connect to the Internet to make sure your stock files are all up to date on your *Evolution*. If your computer is not connected to the Internet then you will not have this valuable function.

If your *Evolution* is not able to program your vehicle because it needs an update or a stock file does not pass the checksum test, then you must connect your computer to the Internet and then connect your *Evolution* to your computer. This will allow our server to update your unit and allow you to program your vehicle.

If we have not been able to verify the stock files on your vehicle, you will be asked if you want to upload those files to our server. This will allow us to make sure the *Evolution* has properly read the files and can program your vehicle with confidence that it will be done correctly.

If the files read by the *Evolution* do not match the ones that we expect we can also download the correct stock files to your *Evolution* in order to recover your vehicle if something went wrong.

**Note:** *If you did not return the truck to the "STOCK" programming level, the software will not allow you to update the Evolution.*

At the end of successful updates, you may exit the Fusion Software; disconnect the *Evolution* and cable from your computer.

# Troubleshooting/Tips

**Tip:** *The Evolution is a high performance product and not all vehicles deliver the exact same power output when programmed with the Evolution. It is recommended that you select a program that will best fit your needs.*

- **NO DISPLAY WITH KEY ON –** If you should get no display when turning the key on, check all of your fuses and make sure your battery is fully charged. Disconnect and reconnect the OBD-II cable to ensure the Evolution restarts properly. If the unit restarts but fails to stay on, or fails to turn on when the key is on, there is most likely a communications issue. Contact Edge Products Technical Support for further assistance.
- **NO START –** If you experience a "No-Start" condition after programming your PCM, return to the *Power Programming* menu and select *Return to Stock*. This will allow the *Evolution* to reprogram the PCM with the factory calibration and recover the PCM. If, after reprogramming, you still have a "No-Start" condition, contact Edge Products Technical Support. A member of our support team can further instruct you on possible recovery procedures.
- **ERROR CODE (or file missing during power programming) AFTER PCM READ** – If you are receiving this error code right after the *Evolution* reads your PCM, check for updates using the Fusion® software.

- **ERROR CODE 0xF1 (AFTER PCM READ)** – If you are receiving this error code right after the *Evolution* reads your PCM, check for updates using the Fusion® software. If the problem continues, go to the *Utilities* menu and select *Read Stock Calibration*. Then call tech support to take steps to create a new calibration for your vehicle.
- **ERROR CODE 0xF1 (IN CUSTOM MENU)** – If you are receiving this error code while trying to configure your custom options, disconnect from the OBDII connector, turn the key to the ON position, and plug the *Evolution* back in. After getting to the main screen (past Intro and Disclaimer), wait 15 seconds. This will give your unit time to load parameters it needs to perform the custom changes. You should now be able to perform your custom changes.

# *Commonly Used Acronyms*

ACT = Air Charge Temp
ACV = Thermactor Air Control Sensor
AOD = Automatic Overdrive Transmission
APP = Accelerator Petal Position
AXOD = Automatic Overdrive Transmission
BAT = Battery Voltage
BCM = Body Control Module
BOO = Brake On/Off Switch
BP = Barometric Pressure Sensor
CCD = Computer Controlled Dwell
CCO = Converter Clutch Override
CDR = Crankcase Depression Regulator
CEL = Check Engine Light
CFI = Central Fuel Injection
CHT = Cylinder Head Temperature
CID = Cylinder Identification Sensor
CKP = Crank Position Sensor
CMP = Cam Position Sensor
CPS = Crankshaft Position Sensor
DTC = Diagnostic Trouble Codes
DPF = Diesel Particulate Filter
ECA = Electronic Control Assembly
ECM = Electronic Control Module
ECT = Engine Coolant Temp
EDF = Electric Drive Fan Relay
EDIS = Electronic Distributor
EGO = Exhaust Gas Oxygen Sensor
EGR = Exhaust Gas Recirculation
EGRC = EGR Control Solenoid
EOT = Engine Oil Temperature
EVP = EGR Position Sensor
EVR = EGR Valve Regulator
FDM = Fuel Delivery Module
FPM = Fuel Pump Monitor
FRP = Fuel Rail Pressure
HEGO = Heated Exhaust Gas Sensor
IAT = Intake Air Temperature
ICM = Integrated Controller Module
IDM = Ignition Driver Module
ISC = Idle Speed Control
ITS = Idle Tracking Switch
IVS = Idle Validation Switch (Diesel)
KAM = Keep Alive Memory
KOEO = Key On Engine Off
KOER = Key On Engine Running
KS = Knock Sensor
LOAD = Engine Load
LOS = Limited Operation Strategy
LPD = Line Pressure Desired
LUS = Lock-up Solenoid
MAF = Mass Airflow
MAFV = Mass Airflow Sensor Voltage
MAP = Manifold Absolute Pressure
MAT = Manifold Air Temp
MCU = Microprocessor Control Unit
MIL = Malfunction Indicator Light
MPH = Miles Per Hour
OHC = Over Head Camshaft
OSS = Output Shaft Speed
PCM = Powertrain Control Module
PFE = Pressure Feedback EGR Sensor
PIP = Profile Ignition Pickup
PSPS = Power Steering Pressure Switch
RPM = Revolutions Per Minute
SES = Service Engine Soon
SIL = Shift Indicator Light
SPARK = Spark Advance/Retard
SPOUT = Spark Output Signal (from ECA)
STAR = Self Test Automatic Readout
TAPS = Throttle Angle Position Sensor
TCM = Transmission Control Module
TFI = Thick Film Ignition System
TFT = Transmission Fluid Temperature
TGS = Top Gear Switch
THS = Transmission Temperature Switch
TPS = Throttle Position Sensor
TQC = Torque Control
TSS = Turbine Shaft Speed
TTS = Transmission Temperature Switch
VAF = Vane Air Flow Sensor
VAT = Vane Air Temperature
VCT = Variable Cam Timing
VSS = Vehicle Speed Sensor
WAC = WOT A/C Cut-off Switch
WOT = Wide Open Throttle

## Edge Products Technical Support
## (888) 360-EDGE(3343)

Please have the Part Number, the Version Number and Manufacture Date prior to calling Tech Support. This will help ensure quick and accurate support.